

21PT 5322



PHILIPS



## **English**

## Introduction

Thank you for purchasing this television set. Every effort has been made to simplify the operation and tuning of the receiver by the use of menus. These menus are displayed on screen when requested giving easy access to the various adjustments.

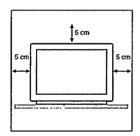
This handbook has been designed to help you install and operate your TV set. We would strongly advice you read it thoroughly.

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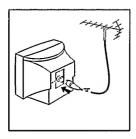
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## Installation



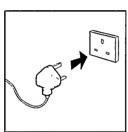
## 1 Installing the TV set

Place your TV set on a solid, stable surface (please ensure this is strong enough). Do not place anything on the TV set which might damage it (plants or heat sources). For ventilation allow a space of at least 5cm around the TV set



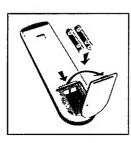
## 2 Connecting the aerial

Insert the aerial plug into the socket  $\fill \Gamma$  at the rear of the set.



## **3** Connecting the mains

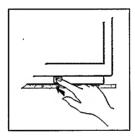
Insert the mains plug into a wall socket (220-240 V/50 Hz).



#### **4** Remote control

Insert the 2 LR03-type batteries (supplied) making sure they are the right way around.

In an effort to help protect the environment the batteries supplied with this television do not contain mercury or nickel cadmium. If a means of recycling batteries is available, please use this (if in doubt, contact your dealer).

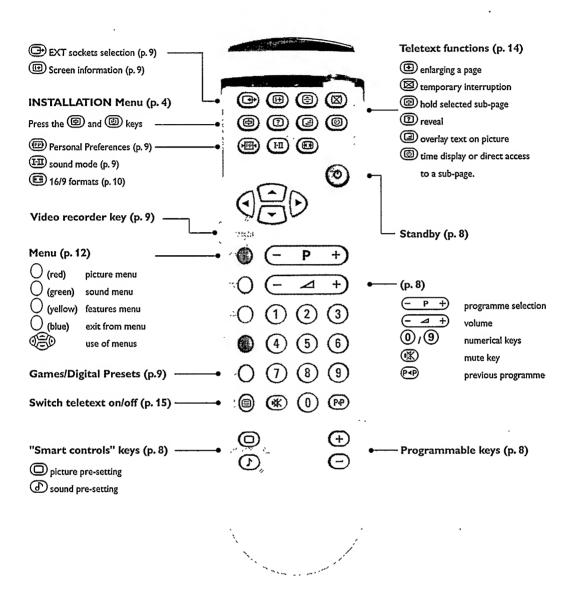


## **6** Switching on

Press the on/off key to switch on the television. A green indicator comes on and the screen lights up. If the indicator is red, press the P + key on the remote control.

When the remote control is being used the indicator flashes orange.

# Remote control keys



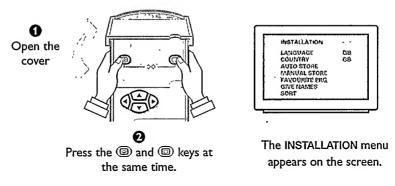
# The keys on the TV set

The television has 3 keys: MENU, - and +. These keys are located on the top, front or side of the set, (if on the front or side of the set they may be concealed by a flap). The MENU key is used to select the function to be altered. The - and + keys are used select programmes or modify the selected MENU item.

#### Installation Menu

This Menu enables you to tune in the channels on the TV set.

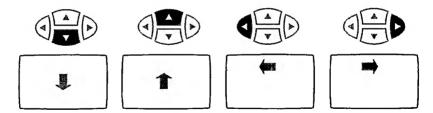
## To call up the INSTALLATION menu:



If the menu display is not stable, press the P + key.

#### To use the menus:

These 4 keys allow you to move around in the menus, make adjustments and access the sub-menus.



#### To exit from the menus

Press the blue O key.

# Selecting the menu language and the country

From the INSTALLATION menu:

- **1** Select the LANGUAGE adjustment using the **△** ♥ keys.
- 2 Select the language you wish to use by means of the ① or ② keys.

  The text for all the menus will appear in the language you have chosen.
- 3 Select the COUNTRY adjustment using the <a>⊕</a> keys
- Select your country using the ⊙ or ⊙ keys (GB for Great Britain).
  Warning: It is essential for correct channel tuning that these two adjustments are set correctly.

# Tuning-in the TV channels

There are two ways the television can be tuned in : automatic store or manual store (tuning - in channel by channel).

#### **Automatic store**

From the INSTALLATION menu (@ and @ keys)
(after ensuring LANGUAGE and COUNTRY have been set correctly)

Select AUTO STORE (⊕ keys) and press D. The AUTO STORE menu appears. Searching begins.

The TV set searches through the complete frequency range in your local region and stores all the programmes it finds. The search operation takes a few minutes. When the search is complete, the INSTALLATION menu reappears automatically.

This TV set is equipped with an Easy Tune system which automatically sorts the programmes by name.

2 If the transmitter emits the correct signal, the programmes are correctly numbered. Go to page 7.

In certain cases, the system may ask you to indicate your local region using keys 0 to 9.

If no signal is emitted, the programmes will be numbered in descending order starting from 99, 98, 97,.. Should this occur, the SORT menu should be used to re-number the programmes.

If no picture is found, refer to the chapter entitled "Tips" (page 19).

#### Sort

This menu allows you to re-number the programmes in the order you prefer.

Select SORT (⊕ ⊕ keys) and press ⊕.
The SORT menu appears. The menu provides a list of all the programme numbers with their names (where provided), or frequencies or channels.

② Using the ③⑤ keys, select the programme to be re-numbered.

If, for example, you want to re-number programme 96 as 2: Select 96 using ⑤⑤ keys (or type ⑨ ⑥).

The number chosen (96) will appear in blue in the list.

**3** Press the D key to enter. A yellow rectangle appears on the name of the programme (or on its frequency or channel).

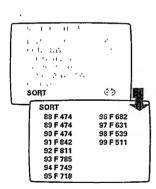
② Enter the new number using keys ① to ③.
In our example, type ②. Programme 02 appears. The number (02) appears in blue in the list.

The exchange of numbers is now complete. In our example, programme No. 96 has become No. 02 (and programme No. 02 has become No. 96). Repeat this operation for other programmes you wish to re-number

## To exit from the menu

Press the blue O key.

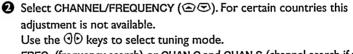




#### Manual store

This menu allows you to store each programmes manually. From the INSTALLATION menu ( and keys).

**1** Select MANUAL STORE (♠♥ keys) and press ♥. The MANUAL STORE menu appears.



FREQ. (frequency search) or CHAN.C and CHAN.S (channel search if you know the channel numbers on which the programmes are broadcast).

Select SYSTEM ( ).
Use ( ) to select EUROPE, EUR. W, EUR. E, UK or FRANCE (according to model).

Selecting EUROPE guarantees automatic detection, with the exception of transmissions from France (standard LL': select FRANCE) or in certain cases of poor reception where EUR. W (BG), EUR. E (DK) or UK (I) should be selected.

For more information see glossary on p. 20

◆ Select SEARCH (♠♥) and press 
•.

The search begins. As soon as a programme is found, the search will stop. Go to section **6**.

If you know the frequency (or the channel) of the programme you wish to receive, you can enter its number in directly using keys numbered 0 to 9.

If no picture is found, refer to "Tips" chapter (page 19). If you want to rerun the search, press D again.

- Select FINE TUNE ( ). If reception is not satisfactory, you can use the fine tuning function.

  Hold down the ( ) keys to adjust.
- Select PRG NUMBER ( )

  Use the ( ) keys or the ( ) to ( ) keys to enter the required number.
- Select STORE (♠♥) and press ♥.
  The OK message appears. The programme and its name (if it has one) are stored.

repeat **4**, **6**, **7** for each programme to be stored.

## To exit from the menu:

Press the blue O key.



# **Favourite Programmes**

This menu allows you to choose which programmes can be accessed using the P key on the remote control.

From the INSTALLATION menu:

- Select FAVOURITE PRG ( keys) and press D
  The FAVOURITE PRG menu appears. All programmes found during the search are automatically included in the menu and appear in green.
- 2 Use the keys to select any programme you wish to remove from the list of favourites.
- Press D to de-activate (or activate) a programme.
  The defactivated programmes appear in white, the activated programmes appear in green.
  Only the programmes and EXT sockets that are displayed in green in this menu can be accessed using the <a href="P">P</a> + <a href="

Warning: If all programmes are de-activated, the P + key will cease to function.

#### To exit from the menu:

Press the blue O key.

# Programme names

This menu allows you to name and modify names for programmes and EXT sockets.

From the INSTALLATION menu:

- Select GIVE NAMES (○○ keys) and press ○.

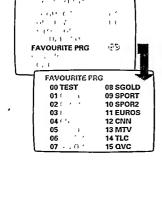
  The GIVE NAMES menu appears with the list of programmes found automatically during installation.

  Certain programmes may not be named (the signal needed for identification is not always transmitted) or may be inappropriately named (only 5 characters are displayed).
- 2 Use the P + key to select the required programme.
- 3 Use the ⊕ keys to move to the area in which the programme name appears (up to 5 characters).

  A yellow rectangle appears in the chosen area.
- Use the 
   keys to select or modify the character.
- **5** Use the P + keys to move around in the next programme.

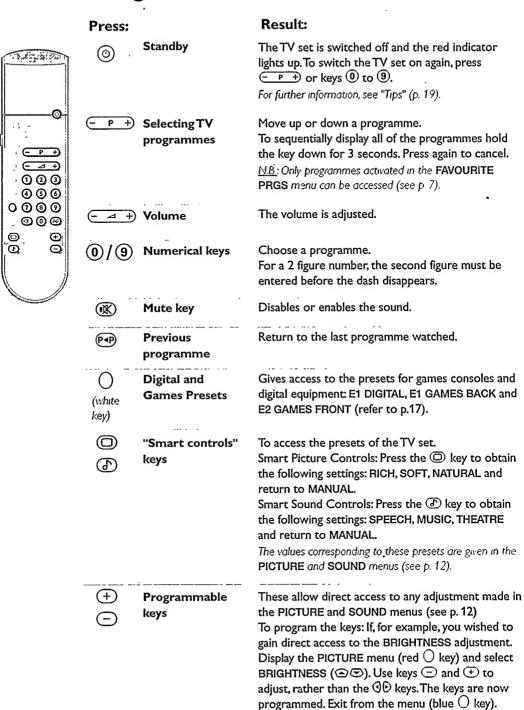
# To exit from the INSTALLATION menu:

Press the blue O key twice.





# Using the remote control



Press and again. This will give you direct access to the brightness adjustment. Repeat for any

other adjustment you may wish to make.

## **Other functions**

#### Result: Press: Pressing this key selects E1 (EXT1), E2 (EXT2) and Select EXT **(** E2 Y/C in turn (see p. 17). sockets ⊕ ⊚ To continuous display of the programme number (H) Screen and the information line on or off each time the information programme is changed, press this button for 3 seconds. Pressing briefly displays the number, name, 16:9 mode, sound mode and information line for a few seconds. The information line displays the title of the programme at the bottom of the screen (except in made ZOOM 14:9 and ZOOM 16:9). This line is only displayed for those programmes which transmit the signal by teletext. The time is displayed in the top right-hand corner Time display **(19)** of the screen. This function only exists if the programme broadcasts teletext. Restores the settings made in the FEATURES menu Personal (PP) (see p. 13). Keep the button pressed during 3 **Preferences** seconds if you want to reset the adjustments per programme. Pressing this key allows you to switch from STEREO Sound mode (I-II)to MONO sound (in case of stereo transmission), or to choose between language ${\tt I}$ or language ${\tt I}$ (in case of bilingual transmissions). For TV sets fitted with NICAM reception, the DIGITAL message appears when a NICAM broadcast is received. The key allows you to switch from DIGITAL STEREO to MONO or to choose between DIGITAL I, DIGITAL II or MONO. Press the VCR key and one of the following keys VCR Video recorder simultaneously. keys record. rewind, ·O (= P + fast forward, stop, 0000 play, programming (on certain models), 0 0 0 ① 0 0 0 1- or 2- digit programmes, programme selection, 0 to 9 enter a programme number, standby

These keys function with video recorders in our range and with

all models which use the RC5 signalling standard.



## 16/9 Function

The pictures you receive may be transmitted in 16:9 format (wide screen) or 4:3 format (conventional screen). 4:3 pictures sometimes have a black band at the top and bottom of the screen (letterbox format). This function allows you to optimise the picture display on screen.

#### Automatic switching

This TV set is also equipped with automatic switching which will select the correct-screen format, provided the specific signals are transmitted with the programmes.

This automatic format can olso be modified manually.

## Using the different screen formats

Press the ① keys to select the different modes: 4:3, ZOOM 14:9, ZOOM 16:9, SUBTITLE ZOOM, SUPER ZOOM and WIDE SCREEN.

These settings may also be accessed using the key under the flap on your remote-control.

#### 4:3 Mode

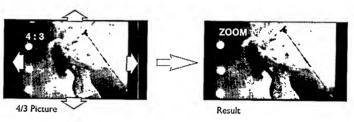
The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture. The picture may be progressively enlarged using the keys.



4/3 Picture

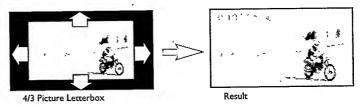
#### **ZOOM 14:9 Mode**

The picture is enlarged to 14:9 format, a thin black band remains on both sides of the picture. The (a) (b) keys allow you to increase or decrease the section at the bottom of the picture where sub-titles may be displayed.



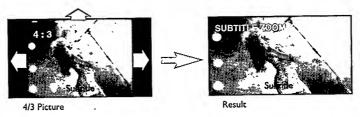
#### **ZOOM 16:9 Mode**

The picture is enlarged to 16:9 format. This mode is recommended when displaying pictures which have black bands at the top and bottom (letterbox format). Use the 🖎 🖘 keys if you wish to display sub-titles.



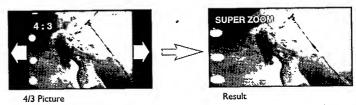
#### **SUBTITLE ZOOM Mode**

This mode is used to display 4:3 pictures using the full surface of the screen leaving the sub-titles visible. Use the 🖎 🕏 keys to increase or decrease the section at the bottom of the picture.



#### **SUPER ZOOM Mode**

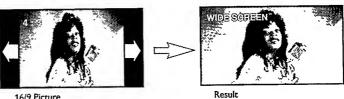
This mode is used to display 4:3 pictures using the full surface of the screen by enlarging the sides of the picture.



#### **WIDE SCREEN Mode**

This mode restores the correct proportions of pictures transmitted in 16:9 using full screen display.

Note: If you display a 4:3 picture in this mode, it will be enlarged horizontally.

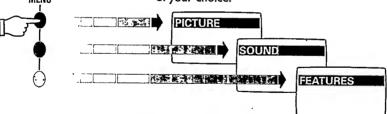


16/9 Picture

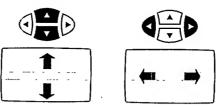


# Using the menus

• Press the coloured key (red, green or yellow) to display the menu of your choice.



② Use the ③⑤ keys to select your adjustments and the ③⑥ keys to adjust or access the sub-menus.





3 Press the blue O key to exit from the menu displayed.

## **Picture**

- Display PICTURE menu (red key).
- 2 Use the keys to select your adjustments and the keys You can now access the adjustments BRIGHTNESS, COLOUR, CONTRAST and:

SHARPNESS adjusts the clarity of the picture, TINT adjusts the colour temperature of the picture from "cool" (blue white) to "warm" (red white).

NOISE REDUCT. Useful in case of poor reception to reduce picture noise (snowy picture).

For picture adjustment see also "Tibs" (b. 19).

# BRIGHTNESS IIIIII--- 26 COLOUR IIIIII--- 32 CONTRAST IIIIIII-- 52 SHARPNESS IIIIII-- 40 TINT ---- 00 NOISE REDUCT. OFF

## Sound

- ◆ Display SOUND menu (green key).
- You can now access the BALANCE, TREBLE, BASS, and INCR. SURROUND: This function enhances the stereo effect, giving the impression that the speakers are positioned further apart. For mono transmissions a stereo effect is simulated.
  HEADRHONES: Allows you to adjust the beadcherse values.

HEADPHONES: Allows you to adjust the headphones volume independently from the loud-speakers on the TV set.

## To exit from the menus:

Press the blue O key.

## **Features**

#### Child Lock

FEATURES © D ,
CHILDLOCK OFF
STORE PP ALL NO
STORE. PP P: 01 NO
TIMERS
MESSAGE
PICTURE TILT .....

The child lock function is an electronic lock which disables the keys on the TV set.

- 1 Display the FEATURES menu (yellow O key).
- 2 Select CHILD LOCK ( keys).
- Suse ⊕ keys to switch to ON.
- Switch off the TV set and remove the remote control. The television can no longer be used.

The TV set can only be switched on using the remote control.

To cancel: Return CHILD LOCK to OFF in the features menu.

## Storing adjustments

This function allows you to store your own picture and sound adjustments. The adjustments are restored every time your set is switched on, or by pressing the green 

key on your remote control.

#### **General storing**

- First carry out your PICTURE and SOUND adjustments and adjust the volume ( + key) and then:
- 2 Display the FEATURES menu (yellow O key).
- 3 Select STORE PP ALL ( keys) and press .

  The message OK appears. All the PICTURE and SOUND menu adjustments as well as the volume are stored.

## Storing adjustments for each programme

This function allows you to correct any differences in levels which may exist between TV channels and/or EXT sockets. It allows you to store BRIGHTNESS, COLOUR, SHARPNESS, NOISE REDUCT. and volume adjustments ( key).

- Carry out desired corrections to settings for the programme (or EXT connection), and then:
- 2 Display the FEATURES menu (yellow O key).
- Select STORE PP P: \_\_ (♠♥) and press ⊕. The message OK appears. The adjustments are stored. Repeat for each programme that needs correcting.

## **Programming**

#### Sleeptimer

From the FEATURES menu (yellow O key).

- Select PROGRAMMING (♠♥) and press ♥.
  The PROGRAMMING menu appears.
- 2 Select SLEEPTIMER and use 1 to enter the length of time after which the TV will switch to standby mode (up to 180 mins).

  Press the 1 key to display the length of time remaining.

To cancel: Switch SLEEPTIMER back to 0.

#### Programmed Switch on

The following adjustments allow you to program the TV to automatically switch on with the programme of your choice.

Select the adjustments using (a) Reys:

**1** SET CLOCK: Use keys ① to ② or the ④ keys.

N.B.: Every time the TV is switched on the clock is automatically updated on the basis of the teletext information in programme No 1.

If the TV set does not feature teletext, this update will not occur.

- 2 START TIME: Use keys 1 to 9 or 1 keys.
- 3 STOP TIME: Use keys 10 to 9 or 10 keys.
- 4 PRG NUMBER: Use keys 1 to 9 or 1 keys.
- **⑤** DAILY: Set this function to ON (ౕ) key) if you want the programming to apply every day.
- TIMER ACTIVE Set this function to ON to activate the timer.
- Press the blue O key to exit from menu. If you now switch the TV set onto standby ( key), it will automatically

To cancel: Switch TIMER ACTIVE back to OFF.

switch on at the time programmed.

N.B.: For programming to function correctly do not use the on/off key on the front of the TV set to switch off the TV.

The programmed switch on-off can be used together with the child lock function in order to limit the use of the TV set to a certain length of time

## Message

This menu allows you to leave a message which will appear on the screen when the TV is switched on (e.g.: "call me when you get home").

From the FEATURES menu (yellow O key).

 Select MESSAGE (♠♥) and press ♥. The MESSAGE menu appears. Select the adjustments using keys:

2 CHANGE: Press the D key to display CHANGE menu. Use the D keys to select the positioning of the characters (44 characters spaced over 2 lines). Use the keys to select each character.

When the message has been entered:

Press the blue O key to return to previous menu.

- 3 RUN: Press the D key to switch to ON.
- 4 Exit from the menu by pressing the blue O key.

The message will remain on the screen.

To erase the message: Press the blue O key.

<u>M.B.</u>: The message will reappear every time the TV is switched on

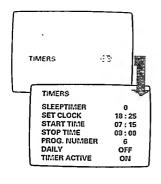
To cancel: Switch RUN back to OFF.

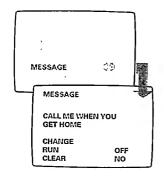
**6** CLEAR: Press **6** key to erase message. To exit: Press the blue () key repeatedly.

## Picture tilt (only on certain models)

Select PICTURE TILT using the 🖎 🗢 keys and use the 🕀 key to adjust the tilt of the picture.

This compensates for regional variations in the earth's magnetic field





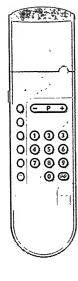
## **Teletext**

Teletext is an information system, broadcast by certain TV channels, which can be consulted in the same way as a newspaper.

It also provides subtitles for the hard of hearing or people who are unfamiliar with the broadcast language (cable TV network, satellite channels, etc.).

#### Press:

#### Result:



Switch teletext on/off

Display or exit from teletext.

The main index page presents a list of subjects to which you have access.

Each subject has a corresponding page number (always 3 digits).

If the selected TV channel does not broadcast teletext, P100 is displayed and the screen remains black (if this is the case, switch off teletext and choose another TV channel). If you have stored a favounte page, press the white key to return to the main index.

① / ⑨ Selecting a teletext page

①②① T P120

To type in the page number required.
E.g. page 120, type ① ② ①. The number is displayed in the top left-hand corner of the screen, the page counter starts searching and then the page selected is displayed. Repeat to consult another page.

If > xxx < flashes briefly or the counter continues searching, this means the page selected is not broadcast or is not available. If this is the case, choose another number.

P + Previous page/
Next page
selection

To consult the previous page (-) or the next page (+).

Direct access to a subject

Coloured zones are displayed at the bottom of the screen. The coloured keys O allow access to the subjects or their corresponding pages.

Main index

To return to the main index (generally on page 100), press the white key  $\bigcirc$ .

Previous page

To return to the page displayed previously.

# **Teletext** (special features)

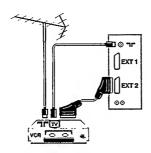
			•
•	Press:		Result:
	Ο	Favourite page	First display your favourite page and then hold the white O key down for 3 seconds to store.  This page will be displayed automatically every time teletext is switched on.  You can store a different page for each programme.
0000	<b>0</b> /9	Subtitles	Consult the main index to find out the page number for subtitles. Enter the subtitles page number (e.g. 888).  The page counter searches and then the subtitles appear on screen. If no subtitles are available the page counter will continue to search.  To exit from subtitles, press   .
000000000000000000000000000000000000000		Temporary interruption of the display	To stop or return to the teletext display. The symbol is displayed, and the television programme reappears on the screen. This function allows you to wait when the search for pages takes a long time.
	<b>®</b>	Enlarging a page	To display the upper part, the lower part and then to return to the normal page size.  The  key may be used to enlarge the page.
		Overlaying teletext on the TV picture	To activate/de-activate the screen overlay.
	7	Reveal	To reveal/conceal hidden information (solutions to games or questions/answers).
	<b>®</b>	Stop the sequence of sub-pages (hold)	Certain pages have sub-pages which follow on automatically. If this is the case, this key will allow you to stop or start the sequence. The message appears on the top left-hand corner of the screen.
	<b>®</b>	Direct selection of a sub-page	To access a sub-page directly, press . The page number followed by four dashes will appear in the bottom left-hand corner of the screen. Type the number of the sub-page required using 4 numbers, e.g. type 0002 to consult sub-page 2. The page counter searches and then the sub-page is displayed. Press . to return to current page.

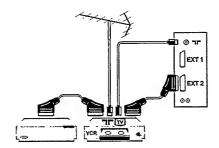
# Connecting peripheral equipment

The EXT1 socket has audio and video inputs/outputs and RGB inputs. The EXT2 socket has audio and video inputs/outputs and S-VHS inputs. For further information, see glossary (p. 20).

#### Video recorder

#### ...with Decoder





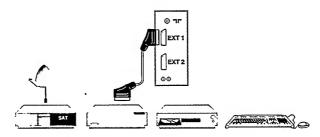
- If your video recorder has a euroconnector socket, carry out the above connections. Euroconnector sockets ensure better picture quality.
- If your video recorder does not have a euroconnector socket (or if this is already being used by another device), then the only connection possible is via the aerial cable. Your video recorder is then considered as a TV programme by your TV set. You will therefore need to tune in your video recorder's test signal and assign it programme number 0 (see manual store chapter, p. 5).

To reproduce the video recorder picture, press the  $\odot$  key.

Refer to your video recorder's operating instructions concerning the test signal (the video recorder must be equipped with an HF modulator).

## Other equipment (satellite receiver, decoder, CDV/CDI, games...)

Connect to socket EXT1 (or to EXT2 if it produces a S-VHS signals).



## To select connected equipment

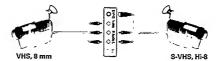
- Use key to select E1 (EXT1), E2 (EXT2) or, for S-VHS or Hi-8 equipment, E2 Y/C.
   Most equipment (decoder, video recorder) carries out the switchover itself.
- The white O key may also be used to select the sockets with adapted Smart
  Controls: E1 DIGITAL (for digital equipment connected to EXT1), E1 GAMES BACK
  (for games connected to EXT1) and E2 GAMES FRONT (for game connected to
  the VIDEO socket on the front panel).

#### Front connections

Carry out one of the following connections and then:

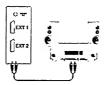
Use the key to select E2 (for VHS or 8mm cameras) or E2 Y/C (S-VHS or Hi-8 cameras).

<u>N.B.</u>: If a peripheral is connected to EXT2, it is advisable to switch it off while using a front S-VHS connection.



## **Amplifier**

Use an audio connection cable and connect the  $\Leftrightarrow$  sockets "L" and "R" on the set to the "AUDIO IN" "L" and "R" input on your hi-fi amplifier.



## **Headphones**

To adjust the headphones volume, use the HEADPHONES adjustment in the SOUND menu (p. 12). To adjust the volume on the TV set, use the or keys. You can also access the HEADPHONES adjustment directly using programmable keys and on the remote control (see p. 8).

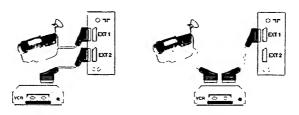


## To make a copy of recordings:

Carry out one of the following connections, then:

Press to select E1.

On the video recorder, select the euroconnector socket as the recording source. <u>N.B.</u>: Copying is not possible using front connections.



# **Tips**

#### Poor reception

The proximity of mountains or high buildings may be responsible for ghost pictures, echoing or shadows. If this is the case, modify the orientation of the outside aerial. Check that the TV channel is tuned in correctly or try using fine tuning: see "fine tuning" (p. 6). The equipment connected to the TV gives a picture in black and white? Check that you have selected the correct E2 or E2 Y/C socket ( key).

#### No picture

Have you forgotten to connect the aerial socket? Have you chosen the correct system? (p. 6) Does your aerial enable you to receive broadcasts in this frequency range? Poorly connected euroconnector cables or aerial sockets are often the cause of picture or sound problems (sometimes the connectors can become half disconnected if the TV set is moved or turned). Check all connections.

#### Picture adjustment

If you have trouble obtaining a clear picture, select one of the smart control presets (p. 8) and store using the STORE PP ALL function in the FEATURES menu. The picture seems too red or too blue! Adjust the TINT (p. 12).

In the event of difficult reception (snowy picture) switch the NOISE.REDUCT on the PICTURE menu to ON. (p. 12).

The picture is badly adjusted? press the green @ key or re-adjust (p. 12).

To reset the stored settings for each programme and return to the initial settings, hold the green @ key down for 3 seconds.

#### No sound

If on certain channels you receive a picture but have no sound, this means that you do not have the correct TV system. Modify the SYSTEM adjustment (p. 6).

#### Remote control

The TV set does not react to the remote control; the orange indicator on the TV set no longer flashes when you use the remote control? Replace the batteries.

#### Standby

When you switch the TV set on it remains in standby mode and the indication CHILD LOCK is displayed when you use the keys on the TV set? The child lock function is switched on (p. 13).

To save electricity it is advisable to switch the TV set off using the ON/OFF key on the front of the set. If the set receives no signal for 15 mins, it automatically goes into standby mode.

#### **Various**

The menus appear in a different language? Re-select language choice (p. 4). Characters remain displayed on the screen? The MESSAGE function is switched on (p. 14). The (-p +) key on the remote control no longer functions? Re-select FAVOURITE PRG menu (p. 7).

#### Still no results?

If you have a problem with your TV set, never attempt to repair it yourself: contact your dealer's after-sales service.

#### Recycling directive

Your TV set uses materials which are reusable or which can be recycled. To minimise the amount of waste in the environment, specialist companies recover used sets for dismantling and collection of reusable materials (consult your dealer).

# **Glossary**

Easy Tune: A system for automatically installing and storing programmes.

PAL SECAM colour coding: PAL is used in the majority of European countries, SECAM in France, the CIS and the majority of African countries.

The United States and Japan use a different system called NTSC.

RGB Signals: These are separate Red, Green and Blue signals which directly drive the red, green and blue emmitterers in the cathode ray tube.

Using these signals provides better picture quality.

S-VHS Signals: These are 2 separate video signals from the S-VHS and HI-8 recording standards. The luminance signals Y (black and white) and chrominance signals C (colour) are recorded separately on the tape. This provides better picture quality than with normal videos (VHS and 8mm), where the Y/C signals are combined to give only one signal.

Smart controls: Allow access to a series of picture and sound presets.

MONO sound: The sound is in mono when only one channel is transmitted.

**STEREO** sound: The sound is in stereo when the left and right channels are transmitted separately.

NICAM sound: Process by which digital sound can be transmitted.

System: Television pictures are not broadcast in the same way in all countries.

There are different standards: BG, DK, I and LL' (France).

The SYSTEM adjustment is used to select these different standards.

**16/9:** Defines the length/height ratio of the screen. Wide screen TV sets have a ratio of 16/9, conventional screen TV sets have a ratio of 4/3.

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Lista das frequências TV Liste over TV senderne. Tabell over TV-frekvenser. Tabell över TV-frekvenser. TV-taajuustaulukko. Κατάλογος συχνοτήτων πομπών.

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